

Work Order ID 69876

Page 1

Tuesday, May 24, 2011 8:26:22 AM

Item ID: D350-636-012

Accept



Setup Start



Revision ID:

Stop



Item Name: Skidtube RH

Start Date: 5/24/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 5/30/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan:

*ll*Date: *11-06-24*

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

D2750

F

D3492

C

100

0.00



DOCUMENT CONTROL

DC

0.00

Document Control

Memo

Photocopy blue file and type labels per PPP D350-636-012 CHG 006

*8 labels**100 BG 11-6-16***69876**

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

110

0.00



Skidtubes

Skidtubes

Memo

0.00

Skidtubes

1- Pick D2600-3 Bent

2- Deburr FWD and AFT ends, remove bending marks. Scribe batch# inside AFT end per dwg D2750

3- Drill pilot holes for blade fitting bolt holes using DT8983. Open to 0.500", deburr.

4- Locate DT8329 off of blade fitting bolt holes and drill pilot holes for blade fitting

5- Drill only two fwd step holes using DT9616. Ensure proper positioning.

6- Drill pilot holes as per Dwg D2750 sheet 4 (D2750-2 details). Drill using drill Jig DT8150 & DT8863A for first side only DT8863B for second side (detail K)

7- Clecko DT8863B on second side of tube and drill pilot holes for detail B.

SECOND SIDE

8-Open up holes for Detail B to 0.375" (4 holes per side) and blade fitting location holes to 0.500" (total of 4 holes per side) as per dwg D2750 .Open up holes for ground handling and detail L to 0.500" (8 holes per side)

9-Drill pilot holes for wearplates as per Dwg D2750 using DT8108 open to 0.297".

10-Open up holes of Detail A to 0.297" (total of 2 holes per side)

BB 11/05/28

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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

11-Weld D2744 Cap as per Dwg D2750 and QSI 004. Fill grooves in bend left
from bending as per QSI 004A/R Aluminum Rod batch: M116577BE 11/05/30
BB 11/05/30

12-Grind welds flush as per Dwg D2750

120



QC

Quality Control

QC10- Inspect visual per QSI004- ground welds

0.00

Memo

0.00

130



QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00



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Accept

[illegible]**Setup Start**[illegible]

Stop

**Cust Item ID:****Customer:**

Reference:

Run Start

1. The first step in the process is to identify the problem. This involves gathering information about the situation and the people involved.

2. The second step is to analyze the problem. This involves breaking the problem down into its components and identifying the underlying causes.

3. The third step is to develop a plan. This involves determining the steps that need to be taken to solve the problem.

4. The fourth step is to implement the plan. This involves putting the plan into action and monitoring progress.

5. The fifth step is to evaluate the results. This involves assessing the effectiveness of the solution and making adjustments as needed.

Stop

1. The first step in the process is to identify the problem. This involves gathering information about the situation and understanding the needs of the stakeholders involved.

2. Once the problem is identified, the next step is to develop a plan. This involves setting goals, identifying resources, and determining the steps that need to be taken to address the problem.

3. The third step is to implement the plan. This involves putting the plan into action and monitoring progress to ensure that the goals are being met.

4. Finally, the fourth step is to evaluate the results. This involves assessing the effectiveness of the plan and making adjustments as needed to improve the outcome.

Operation Description

Set Up/ Run Hours

Tool ID**Tool #****Plan
Code**

**Accept
Qty**

Reject
Qty

Reject Number

**Insp.
Stamp**

140

Chemical Conversion Coat per QSI005 4.1

0.00

[illegible]

HandFinish

Memo

0.00

Hand Finishing

Sh
11/05/30

150

QC3- Inspect Part Finish

0.00



QC

Memo

0.00

Quality Control

11-5-31

W/O:		WORK ORDER CHANGES					
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Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

160

0.00



Skidtubes

Skidtubes

Memo

0.00

1-Open up holes of Detail L and ground handling to 0.625" (total of 8 holes per side) as per dwg D2750.

2-Open up holes of Detail K to 0.750" (total of 4 holes per side) as per dwg D2750.

3-Open float holes to .500" (4 per Side)

4-Chamfer holes of Detail K, L, ground handling and float holes per dwg D2750 (welding instructions on sheet 9)

5-Deburr and blow out all chips from inside of tube

6-Prepare tube for welding, remove alodine as required.

7-Bond web D2739 in place as per QSI 015

A/R ☒ Skaflex-291batch: 116815 ☐ ☐

exp. date: 12/01/15

8- Weld spacers D3490-1, D3490-3 and D2743 as per dwg D2750 & QSI004 (welding instructions on sheet 9)

A/R ☐ Aluminum Rod

batch: m117456

9- At section AP-AP drill out x-bolt spacer to 0.404"

10-Grind welds flush as per Dwg D2750

11-Spot face ground handling holes section (total of 4 places per side) as per

DL 11/05/31

BB 11/05/31

BE 11/06/02
BE 11/06/02

BB 11/06/06

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Accept

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

Setup Start

Stop

**Cust Item ID:**[illegible]

Customer:

Reference:

Run Start

Stop

**Insp.
Stamp**

12-Deburr holes

[illegible]

QC10- Inspect visual per QSI004- ground welds

0.00

0.00

Quality Control

Memo

[illegible]

QC5- Inspect part completeness to step on W/O

0.00

0.00

Quality Control

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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
190 HandFinish	Pressure Wash per QSI005 4.3	0.00							
Hand Finishing	Memo Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch.	0.00							1X 11/06/14
200 Powdercoat	White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum	0.00							
Powder Coating	Memo START TIME: 1:40 OVEN TEMPERATURE: 320 FINISH TIME: 2:40	0.00							1X 11/06/14
210 QC	QC3- Inspect Part Finish	0.00							
Quality Control	Memo Inspect for foreign object per QSI 024	0.00							1 BR 11-6-15.

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Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
220		0.00							
	HandFinishing								
HandFinish	Memo	0.00							
Hand Finishing	Install inserts as per dwg D2750								
230		0.00							
	HandFinishing								
HandFinish	Memo	0.00							
Hand Finishing	1-Inspect for Foreign Objects								
	2-Spray inside of tube with "LPS-3" batch: _____								
	3-Install blade fitting D3488-042, wearshoes and ground handling hardware as per dwg D2750 SIKA FLEX 241 BATCH: <u>117516</u> EXP DATE: <u>15-01</u>								
	4-assemble o-ring to plug as per dwg D3492 and apply o-ring lube A/R 55-o-ring lube batch: <u>114189</u>								
	5-Coat all exposed fasteners with "LPS Procyon" batch: <u>114396</u>								

1 ϕ BL 11-6-15

1 BL 11-6-15

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Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
240 QC Quality Control	QC5- Inspect part completeness to step on W/O Memo	0.00 0.00	8 ul 06/16						
250 Packaging Packaging	Pick Kit Memo	0.00 0.00							11/6/16 \$
260 QC Quality Control	QC4- 100% Inspect kits for completeness Memo	0.00 0.00	8 ul 06/16						(40)

W/O:		WORK ORDER CHANGES					
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Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
270 	Packaging	0.00							
Packaging	Memo	0.00							
Packaging	Package as per PPP D350-636-012								
280 	QC21- Final Inspection - Work Order Release	0.00							
QC	Memo	0.00							
Quality Control									

REV I

4/5/17

11/6/2017
mf
11-06-17

W/O:		WORK ORDER CHANGES					
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Picklist Print

Tuesday, May 24, 2011 8:26:30 AM

Page 1

Work Order ID: 69876

Parent Item: D350-636-012

Parent Item Name: Skidtube RH



Start Date: 5/24/2011

Required Date: 5/30/2011

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:I 02.09.25 Rearranged procedure steps KJ
 IPP Rev:J 06-03-29 As per Rev D EC
 IPP Rev:K 06-07.13 As per dsi9343 EC
 IPP Rev:L 07-07-28 Added SS Wearplates(Rev E) JLM Verified By:EC
 IPP Rev:M 08-04-22 update steps 4,13 DD verified by:EC
 IPP Rev:N 08-09-23 revF as per dwg DD verified by:ec IPP Rev:O
 10.06.22 revise seq110 DD verf:EC IPP Rev:P 10.10.01 as per
 IIN revH DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
ALS4-1032-225		Purchased	No			220	Each	1,617.000	38	38			



Insert

Location	Loc Qty	Loc Code
ST282	1617	
110768	817	
117717	800	

AN3C5A

Purchased

No

230

Each

1,586.000

34

34



Bolt

Location	Loc Qty	Loc Code
FP-A	7	
115835	7	
ST350	1579	
115422	49	
116419	334	
116549	96	
117343	500	
117508	300	
117764	300	

38. PR 11-6-15

34 PR 11-6-15

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Parent Item: D350-636-012

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Start Date: 5/24/2011

Required Date: 5/30/2011

Start Qty: 1.00

Required Qty: 1.00

AN3C6A

Purchased

No

230

Each

410.0000

4

4



BOLT



Location

Loc Qty

Loc Code

FP-A

1

111982

1

ST351

409

111982

2

116419

23

116549

50

116704

84

117514 ✓

100

117619

50

117688

100

H. BR 11-6-15

AN6C44A

Purchased

No

230

Each

113.0000

4

4



BOLT



Location

Loc Qty

Loc Code

FG

2

103964

2

ST344

111

117407 ✓

80

117763

31

H. BR 11-6-15.

AN8C35A

Purchased

No

230

Each

69.0000

1

1



BOLT



Location

Loc Qty

Loc Code

FP

40

117511

40

FP-A

29

115960

6

116874 ✓

23

I BR 11-6-15.

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Parent Item Name: Skidtube RH

Start Date: 5/24/2011

Required Date: 5/30/2011

Start Qty: 1.00

Required Qty: 1.00

AN960C10L NAS1149C0332 R Purchased No

230

Each

0.0000

38

38



washer

117291



38

BR 11-6-15

* AN960C816L Purchased No

230

Each

0.0000

1

1



WASHER

NAS1149C0 832 R 114915



1

BR 11-6-15

D2745 Manufactured No

230

Each

206.0000

8

8



Bushing



Location

Loc Qty

Loc Code

FP-A

206

67764

5

68248 ✓

201

D3488-042 Manufactured No

230

Each

24.0000

1

1



Blade Fitting Assembly, RH



8 BR 11-6-15

Location

Loc Qty

Loc Code

FP008

24

62003 ✓

4

65099 ✓

8

68109

12

D3492-1 Manufactured No

230

Each

0.0000

8

8



Plug

69531



8

BR 11-6-15

D3492-3 Manufactured No

230

Each

0.0000

8

8



Plug

69822



8

BR 11-6-15

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Shop Packet Print

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Work Order ID: 69876

Parent Item: D350-636-012


Parent Item Name: Skidtube RH

Start Date: 5/24/2011

Required Date: 5/30/2011


Start Qty: 1.00

Required Qty: 1.00

D3535-25 Manufactured No 230 Each 30.0000 1 1

Wearshoe


Location	Loc Qty	Loc Code
FP018	30	
62233	1	
65167	3	
68353	11	
69284	15	

1 BR 11-6-15

D3536-25 Manufactured No 230 Each 34.0000 1 1

Gasket


Location	Loc Qty	Loc Code
FP012	34	
65903	8	
68351	26	

1 BR 11-6-15

D3537-1 Manufactured No 230 Each 34.0000 3 3

Wearpad

Location	Loc Qty	Loc Code
FP017	34	
63313	2	
66804	28	
66935	4	

3 BR 11-6-15.

D3631-1 Manufactured No 230 Each 500.0000 8 8

Washer

Location	Loc Qty	Loc Code
ST072	500	
68062	500	

8 BR 11-6-15

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Page 4

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Tuesday, May 24, 2011 8:26:32 AM

Page 5

Work Order ID: 69876

Parent Item: D350-636-012

Parent Item Name: Skidtube RH

Start Date: 5/24/2011

Required Date: 5/30/2011

Start Qty: 1.00

Required Qty: 1.00

D3672-1

Manufactured No

230 Each

1,350.000 8 8



Phenolic Washer

Location

Loc Qty

Loc Code

ST074

1350

64177 ✓

850

66821

500

4 BR 11-6-15

D3791-1

Manufactured No

230 Each

19.0000 1 1



Wearplate

Location

Loc Qty

Loc Code

FP017

19

62239 ✓

7

68352 ✓

12

1 BR 11-6-15

D3793-1

Manufactured No

230 Each

31.0000 1 1



Wearshoe

Location

Loc Qty

Loc Code

FP018

31

64445 ✓

14

69285

17

1 BR 11-6-15

D3793-3

Manufactured No

230 Each

30.0000 1 1



Wearshoe

Location

Loc Qty

Loc Code

FP018

21

68356 ✓

13

69283

8

FP019

9

64447

9

1 BR 11-6-15

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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Tuesday, May 24, 2011 8:26:32 AM

Page 6

Work Order ID: 69876

Parent Item: D350-636-012

Parent Item Name: Skidtube RH

Start Date: 5/24/2011

Required Date: 5/30/2011

Start Qty: 1.00

Required Qty: 1.00

D3794-1

Manufactured No

230 Each

32.0000

1 1



Gasket



Location

Loc Qty

Loc Code

FP010

32

39421

1

61704

5

68355 ✓

26

D3794-3

Manufactured No

230 Each

34.0000

1 1



Gasket



Location

Loc Qty

Loc Code

FP010

26

68357 ✓

26

FP018

8

39422

1

61712

7

MS21043-6

Purchased No

230 Each

523.0000

4 4



NUT



Location

Loc Qty

Loc Code

FG

20

103693

20

FP-A

40

112314 ✓

40

ST301

463

112314

463

1 BR 11-6-15

1 BR 11-6-15

4 BR 11-6-15.

Tuesday, May 24, 2011 8:26:32 AM

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Page 6

W/O:		WORK ORDER CHANGES					
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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Picklist Print

Tuesday, May 24, 2011 8:26:32 AM

Page 7

Work Order ID: 69876



Parent Item: D350-636-012



Parent Item Name: Skidtube RH

Start Date: 5/24/2011

Required Date: 5/30/2011

Start Qty: 1.00

Required Qty: 1.00

MS21083C8

Purchased

No

230

Each

113.0000

1

1



NUT



Location

Loc Qty

Loc Code

FP-B

1

115884

1

ST303

112

115884

0

117291

37

117423 ✓

50

117677

25

1 BR 11-6-15

NAS1611-010

Purchased

No

230

Each

266.0000

8

8



O-RING



Location

Loc Qty

Loc Code

FP

80

117460 ✓

80

FP-A

186

110915

139

115589

47

8 BR 11-6-15

NAS1611-013

Purchased

No

230

Each

168.0000

8

8



O-RING



Location

Loc Qty

Loc Code

FP

163

117291

123

117460 ✓

40

FP-A

5

116582

5

8 BR 11-6-15

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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Tuesday, May 24, 2011 8:26:32 AM

Page 8

Work Order ID: 69876

Parent Item: D350-636-012

Parent Item Name: Skidtube RH

Start Date: 5/24/2011

Required Date: 5/30/2011

Start Qty: 1.00

Required Qty: 1.00

AN8C21A

Purchased

No

250

Each

101.0000

2



BOLT

Location

Loc Qty

Loc Code

ST344

25

117764

25

ST345

76

116381

26

117562

50

AN960JD816

Purchased

No

250

Each

43.0000

2



1/2" washer, Alum

Location

Loc Qty

Loc Code

FP-A

43

106043

43

D2741

Manufactured

No

250

Each

44.0000

1



Blade, 350 Skidtube

Location

Loc Qty

Loc Code

ST466

44

61341

6

63589

38

D3493-1

Manufactured

No

250

Each

72.0000

2



Washer

Location

Loc Qty

Loc Code

ST062

72

66975

31

68253

41

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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Tuesday, May 24, 2011 8:26:33 AM

Page 9

Work Order ID: 69876

Parent Item: D350-636-012

Parent Item Name: Skidtube RH

Start Date: 5/24/2011

Required Date: 5/30/2011

Start Qty: 1.00

Required Qty: 1.00

D3532-1



Spacer

Manufactured No

250 Each

35.0000 2



2
11/6/11 SP

Location

Loc Qty

Loc Code

ST065

35

62218

13

66949

22

2

MS21083C8



NUT

Purchased No

250 Each

113.0000 2



2
11/6/11 SP

Location

Loc Qty

Loc Code

FP-B

1

115884

1

ST303

112

115884

0

117291

37

117423

50

117677

25

2

D2600-3-BENT



Extrusion Bent

Manufactured No

110 Each

14.0000 1



1

Location

Loc Qty

Loc Code

LG

14

66875

8

68137

6

1 BB 11/05/28

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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Picklist Print

Tuesday, May 24, 2011 8:26:33 AM

Page 10

Work Order ID: 69876

Parent Item: D350-636-012

Parent Item Name: Skidtube RH

Start Date: 5/24/2011

Required Date: 5/30/2011

Start Qty: 1.00

Required Qty: 1.00

D2744

Manufactured No

110 Each

26.0000

1 1



Cap

Location

Loc Qty

Loc Code

LG002

26

62715

2

65086

24

D2739

Manufactured No

160 Each

4.0000

1 1



350 I Beam

Location

Loc Qty

Loc Code

LG

67785

4

68285

1

68285

3

D2743

Manufactured No

160 Each

162.0000

8 8



Crossbolt Spacer

Location

Loc Qty

Loc Code

LG

68948

63

68948

63

LG001

99

67766

35

68251

64

D3490-3

Manufactured No

160 Each

86.0000

4 4



Cross Bolt Spacer

Location

Loc Qty

Loc Code

LG

68106

86

68952

22

68952

64

Tuesday, May 24, 2011 8:26:33 AM

Shop Packet Print

Page 10

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Tuesday, May 24, 2011 8:26:33 AM

Page 11

Work Order ID: 69876



Parent Item: D350-636-012



Parent Item Name: Skidtube RH

Start Date: 5/24/2011

Required Date: 5/30/2011

Start Qty: 1.00

Required Qty: 1.00

D3490-1

Manufactured No

160

Each

49.0000

4

4



Cross Bolt Spacer



BB 4/26/02

Location

Loc Qty

Loc Code

LG

47

67773

5

68105

42

LG001

2

62450

2

4

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

8

7

6

5

4

3

2

1

QTY -041	QTY -042	QTY -043	QTY -044	PART NUMBER	DESCRIPTION
X				D2750-041	350 SKIDTUBE ASSEMBLY, LH
	X			D2750-042	350 SKIDTUBE ASSEMBLY, RH
		X		D2750-043	350 SKIDTUBE ASSEMBLY, LH
			X	D2750-044	350 SKIDTUBE ASSEMBLY, RH
1	1	1	1	D2739	WEB
8	8	8	8	D2743	SPACER
1	1	1	1	D2744	CAP
8	8	8	8	D2745	BUSHING
1				D2750-1	SKIDTUBE WELDMENT, LH
	1			D2750-2	SKIDTUBE WELDMENT, RH
		1		D2750-3	SKIDTUBE WELDMENT, LH
			1	D2750-4	SKIDTUBE WELDMENT, RH
1		1		D3488-041	BLADE FITTING, LH
	1		1	D3488-042	BLADE FITTING, RH
4	4	4	4	D3490-1	SPACER
4	4			D3490-3	SPACER
		4	4	D3490-5	SPACER
8	8	8	8	D3492-041	PLUG ASSEMBLY
8	8			D3492-043	PLUG ASSEMBLY
		8	8	D3492-045	PLUG ASSEMBLY
1	1	1	1	D3535-25	WEARSHOE
1	1	1	1	D3536-25	GASKET
3	3	3	3	D3537-1	WEARPAD
8	8	8	8	D3631-1	WASHER
1	1	1	1	D3791-1	WEARPLATE
1	1	1	1	D3793-1	WEARSHOE
1	1	1	1	D3793-3	WEARSHOE
1	1	1	1	D3794-1	GASKET
1	1	1	1	D3794-3	GASKET
38	38	38	38	ALS4-1032-225	INSERT (OR ALS7-1032-225, AKS4-1032-225, AELS-1032-225)
34	34	34	34	AN3C5A	BOLT
4	4	4	4	AN3C6A	BOLT
4	4	4	4	AN6C44A	BOLT
1	1	1	1	AN8C35A	BOLT
38	38	38	38	AN960C10L	WASHER
1	1	1	1	AN960C816L	WASHER
4	4	4	4	MS21043-6	NUT
1	1	1	1	MS21083C8	NUT
4	4	4	4	NAS1515H3L	WASHER

GENERAL NOTES:

- MATERIAL: MAKE D2750-1/-2/-3/-4 FROM D2600-3 EXTRUSION (INITIAL LENGTH = 120.0).
- FINISH:
ACID ETCH, ALONDE ASSEMBLY PER DART QSI 005 4.1 PRIOR TO INSTALLING D2739 WEB.
POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3
BLACK ANTI-SKID PAINT AS INDICATED TO 1.0 ABOVE SKIDTUBE CENTER-LINE PER DART 005 4.4 (OPTIONAL).
- TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- UNITS: INCHES UNLESS OTHERWISE NOTED
- BREAK SHARP EDGES: N/A
- IDENTIFICATION: N/A
- WEIGHT: D2750-041/-042/-043/-044 = 26.5 LBS
- WELD PER DART QSI 004
- INSTALL ALS4-1032-225 INSERTS AFTER FINISH AS INDICATED. DRILL 'F' SIZE HOLES ($\phi 0.297$) FOR WEARSHOE INSERTS
- FINAL CONFIGURATION SHOULD HAVE THE FOLLOWING MINIMUM MECHANICAL PROPERTIES:
MINIMUM YIELD TENSILE STRENGTH = 35 KSI
MINIMUM ULTIMATE TENSILE STRENGTH = 38 KSI
- SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS.
COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF
POWDER COATING WITH MEK DEGREASER.
- SPACER AND PLUG INSTALLED SAME AS SECTION AJ-AJ EXCEPT HORIZONTAL
- SPACER AND PLUG INSTALLED SAME AS SECTION AP-AP EXCEPT HORIZONTAL

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER NO. 49824

11-08-24

RELEASED

F	INCORPORATE DSI 9413. QTY (3) D3537-1 WAS QTY (5) (ZN C8-1); D3791-1/3 REPLACES D3535-13/35 (ZN C8-1); D3794-1/3 REPLACES D3536-13/35 (ZN B8-1); ADD D3791-1 (ZN C8-1); WEARSHOE HOLES UNDER FWD/AFT SADDLE REMOVED (8 PL); WEARSHOE HARDWARE QTY UPDATED (ZN B8-1); D3488-041/-042 HARDWARE UPDATED (ZN C1-8, 9, 10, 11); ADD NOTE 12 AND 13 (ZN A6-1); REASON: REF. NCR 08-043	PH	08.07.16
E	CHANGE TO STAINLESS STEEL WEARPLATES; ADD RUBBER GASKETS; CHANGE INSERTS; ADD D3631-1; REMOVE QTY (38) NAS1515H3L; REMOVE QTY (10) NAS1515H8L; REMOVE D2741, QTY (2) AN960C816; REMOVE QTY (2) MS21083C8	CB	07.05.17
D	ADD HOLES AND SPACERS FOR APICAL FLOATS; INCORPORATE DEO 9133/9157	PH	06.01.05
C	ADD D2750-3/D2750-4; INCORPORATE D2738 AND D2740	CP	98.11.18
B	CHANGE MS24694-S293 TO AN8-16A	CP	98.09.01
A	NEW ISSUE	DS	98.04.16
REV.	DESCRIPTION	BY	DATE
DESIGN	PC	DART AEROSPACE USA, INC. PORT HADLOCK, WA DRAWING NO. D2750 TITLE 350 SKIDTUBE ASSEMBLY COPYRIGHT © 1998 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSES OF COMMERCE OR COMMUNICATION TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	
DRAWN	RL		
CHECKED			
MFG. APPR.	AS		
APPROVED	AS		
DE APPR.			
DATE	08.07.16		
		REV. F	SHEET 1 OF 1
		SCALE	NTS

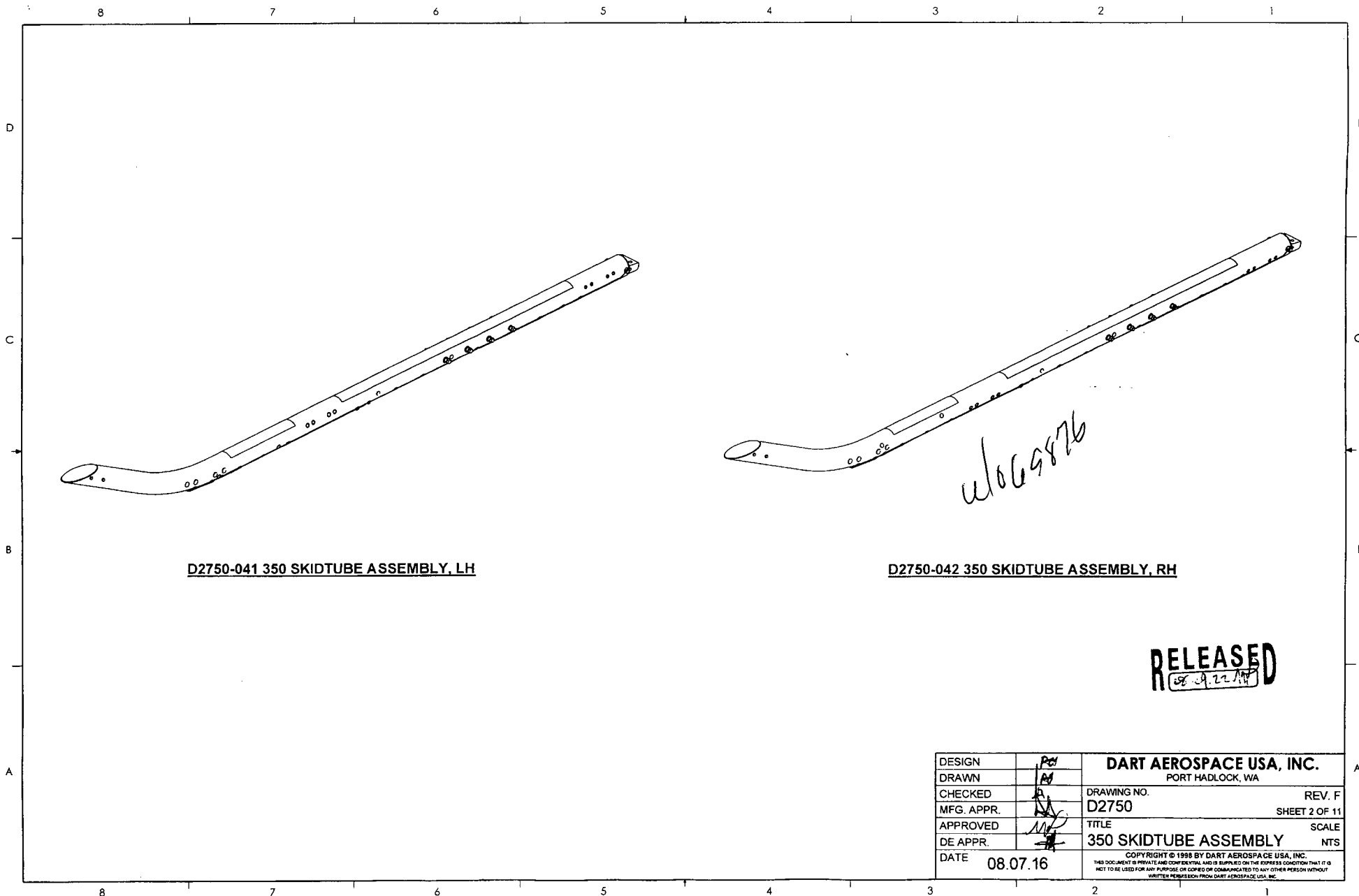
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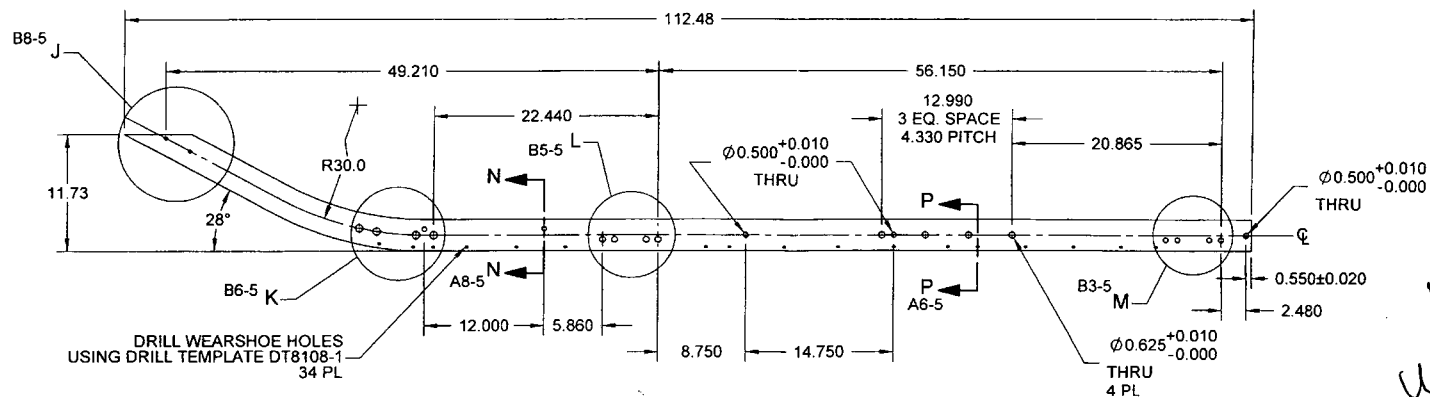
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

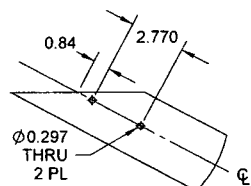
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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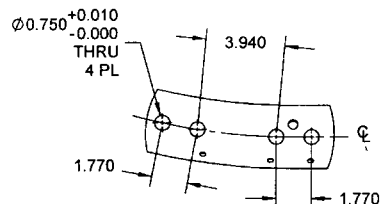
NOTE: Date & initial all entries



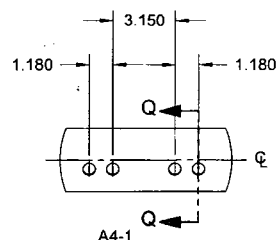
D2750-2 RH SKIDTUBE



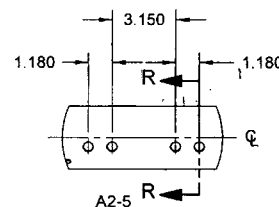
DETAIL J
SCALE 2X



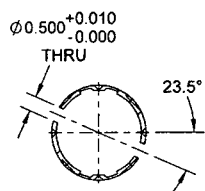
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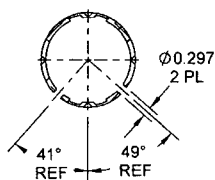
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SCALE 2X



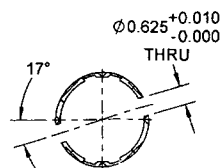
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SCALE 2X



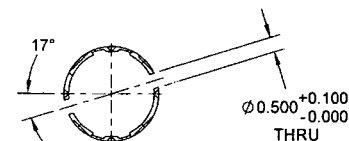
SECTION N-N
SCALE 3X, 2 PL



SECTION P-P
SCALE 3X, 17 PL



SECTION Q-Q
SCALE 3X, 4 PL



SECTION R-R
SCALE 3X, 4 PL

DESIGN	REV	DART AEROSPACE USA, INC.	
DRAWN	REV	PORT HADLOCK, WA	
CHECKED		DRAWING NO.	REV. F
MFG. APPR.		D2750	SHEET 5 OF 11
APPROVED		TITLE	SCALE
DE APPR.		350 SKIDTUBE ASSEMBLY	NTS
DATE	08.07.16	COPYRIGHT © 1998 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

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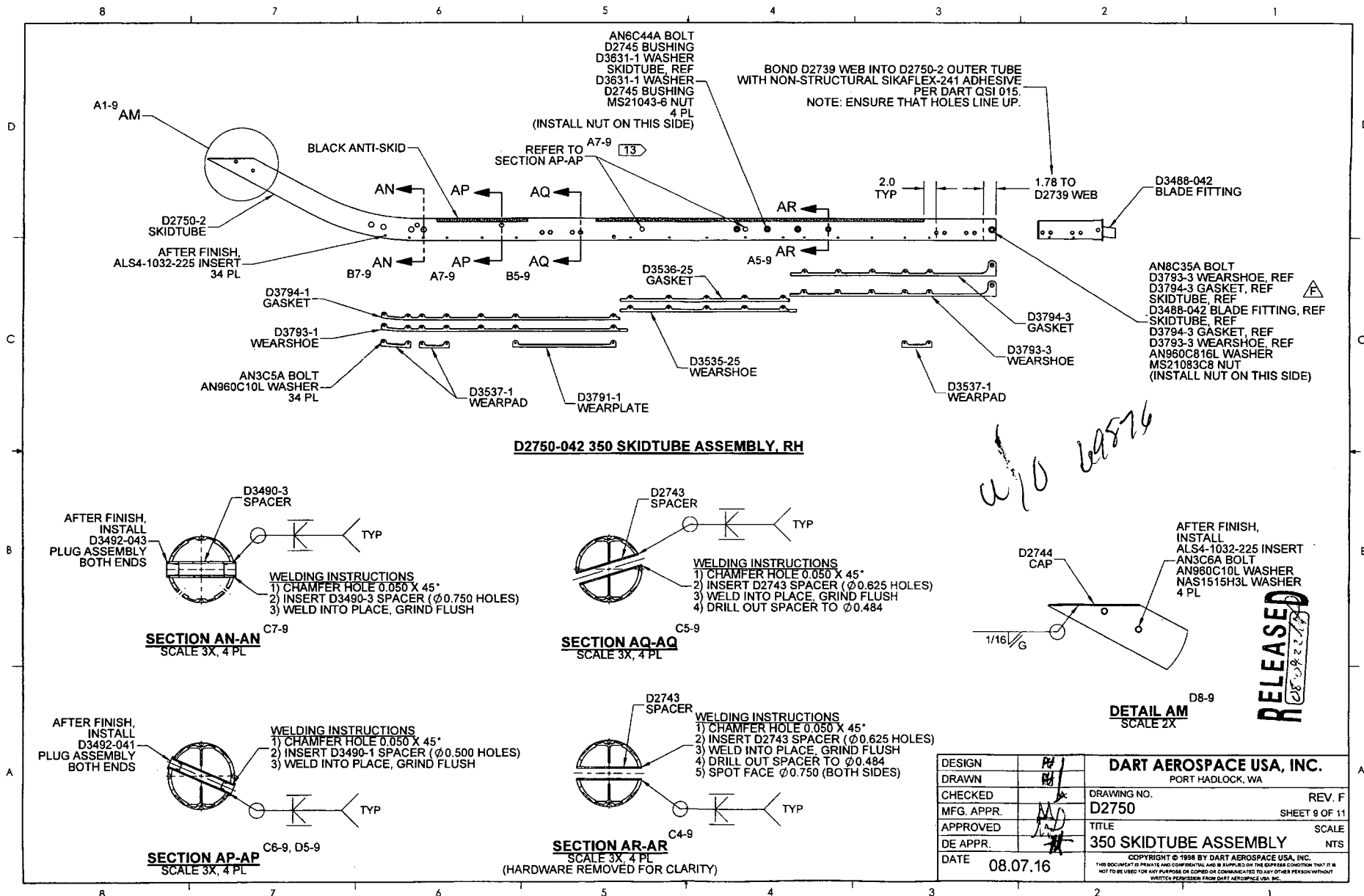
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

NO. 253

AWS D17.1.2001
QUALIFICATION TEST RECORD

Name: Barclay Elliot
Job number: 67621
Part number: D.350 . 636 . 011
Description: 350
Welding Process: Tig ☒ Mig ☐
Base material: Aluminium
Current: AC ☒ DC ☐

TEST REQUIREMENTS AND RESULTS

Visual: pass ☒ fail ☐
Penetration: pass ☒ fail ☐

UNACCEPTABLE

Cracks: pass ☒ fail ☐
Undercut: pass ☒ fail ☐
Pin holes: pass ☒ fail ☐
Overlap (cold lap): pass ☒ fail ☐
Porosity (surface): pass ☒ fail ☐
Coloration: pass ☒ fail ☐

Qualifier Rob. Lyons Date of Test Coupon 11.05.19

Welder Barclay Elliot Date of Test Coupon 11.05.19

The above named individual is qualified in accordance with AWS D17.1.2001 to weld